

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The bidirectional knowledge offer system characterized by to have the knowledge information database which registers the knowledge information which includes other users' comment to the knowledge information concerned while registering the knowledge information containing the idea of the user of 1 based on the demand to the server prepared on the network which specific a large number, such as LAN and WAN, use, two or more clients connected to the server by said network, and said server of a client.

[Claim 2] The bidirectional knowledge offer system characterized by to have the knowledge information database which registers the knowledge information which includes other users' comment to the knowledge information concerned while registering the knowledge information containing the idea of the user of 1 based on the demand to the server prepared on the network which specific a large number, such as LAN and WAN, use, and said server from the client which went via said network.

[Claim 3] Furthermore, the bidirectional knowledge offer system according to claim 1 or 2 characterized by having a perusal means by which said user and other users of 1 peruse at least the knowledge information containing the idea registered by said user of 1 registered into said knowledge information database, and knowledge information including the comment registered by the user besides the above mutually.

[Claim 4] Furthermore, the internet server connected to the Internet through the fire wall while connecting with said network, A Web page collection means to patrol periodically the Web page linked from a specific homepage and the specific homepage concerned, and to collect the newest Web pages concerned, The Web page database which accumulates the Web page collected with the Web page collection means, The bidirectional knowledge offer system of any one publication of claim 1-3 characterized by having a Web page perusal means by which said user peruses the Web page accumulated in the Web page database.

[Claim 5] Furthermore, the bidirectional knowledge offer system of any one publication of claim 1-4 characterized by having a hierarchy assignment means to specify the hierarchy of the link of the Web page linked from said homepage, and to collect Web pages within the hierarchy.

[Claim 6] The bidirectional knowledge offer system of any one publication of claim 1-5 characterized by including the information source offered by said users of 1, such as the newspaper article and paper used as the hint of an idea, and a Web page, in the knowledge information containing said idea, and said knowledge information database carrying out string attachment ***** of the information source concerned with the idea.

[Claim 7] Furthermore, the bidirectional knowledge offer system of any one publication of claim 1-6 characterized by having the retrieval means which carries out the full-text search of said knowledge information database and/or the Web page database.

[Claim 8] Furthermore, an individual keyword registration means to register a user's individual keyword beforehand, It is aimed at the knowledge information and/or the Web page which were accumulated in said knowledge information database and/or the Web page database. A keyword automatic mortgage activation means to perform a keyword automatic mortgage by said registered individual keyword, The bidirectional knowledge offer system of any one publication of claim 1-7 characterized by having a notice means of an electronic mail to notify the corresponding knowledge information and/or the information about a Web page to said user's client with an electronic mail from said server.

[Claim 9] Furthermore, the bidirectional knowledge offer system of any one publication of claim 1-8 characterized by having the patent retrieval system in which a precedence technical survey is possible in inputting the keyword about the knowledge information which has a patent information database and contains said idea.

[Claim 10] The process which registers delivery and the knowledge information concerned into a knowledge information database from a client at a server via the network where specific a large number, such as LAN and WAN, use the knowledge information containing the idea inputted by the user of 1, The process which transmits said registered knowledge information to a client from a server via said network by the demand from other users' client, The bidirectional knowledge offer approach characterized by including the process registered into a knowledge information database with the knowledge information which includes knowledge information including the comment inputted by other users for delivery, and includes the knowledge information concerned for said idea in a server from a client via a network.

[Claim 11] Furthermore, the bidirectional knowledge offer approach according to claim 10 characterized by including the process which carries out string attachment ***** with the idea concerned in case said idea is registered into a knowledge information database for the information source offered by said users of 1, such as the newspaper article and paper used as the hint of said idea, and a Web page.

[Claim 12] Furthermore, the bidirectional knowledge offer approach according to claim 10 or 11 characterized by including the process which patrols periodically the Web page which connects to the Internet and is linked from a specific homepage and the specific homepage concerned, and collects the newest Web pages concerned, and the process which accumulates the collected Web pages in a Web page database.

[Claim 13] The bidirectional knowledge offer approach of any one publication of claim 10-12 characterized by specifying the hierarchy of the link of the Web page linked from said homepage at the process which collects said Web pages, and collecting Web pages within the hierarchy.

[Claim 14] Furthermore, it is aimed at the knowledge information and/or the Web page which were accumulated in said knowledge information database and/or the Web page database at the process which registers a user's individual keyword beforehand. The process which performs a keyword automatic mortgage by said registered individual keyword, The bidirectional knowledge offer approach of any one publication of claim 10-13 characterized by including the process which notifies the corresponding knowledge information and/or the information about a Web page to said user's client with an electronic mail from said server.

[Claim 15] The bidirectional knowledge offer approach of any one publication of claim 10-14 characterized by including the process which carries out processing of the knowledge information including the comment and evaluation by said manager to the knowledge information which selects a manager from said users and contains the idea of said user of 1 in which it does not indicate, to said user of 1, and users other than a manager.

[Claim 16] The process which registers delivery and the knowledge information concerned into a knowledge information database from a client at a server via the network where specific a large number, such as LAN and WAN, use the knowledge information containing the idea inputted into the computer by the user of 1, The process which transmits said registered knowledge information to a client from a server via said network by the demand from other users' client, The bidirectional knowledge distribution program for performing the process registered into a knowledge information database with the knowledge information which includes knowledge information including the comment inputted by other users for delivery, and includes the knowledge information concerned for said idea in a server from a client via a network.

[Claim 17] Furthermore, the bidirectional knowledge distribution program according to claim 16 for performing the process which carries out string attachment ***** with the idea concerned, in case said idea is registered into a knowledge information database for the information source offered by said users of 1, such as the newspaper article and paper which became a computer with the hint of said idea, and a Web page.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

TECHNICAL FIELD

[Field of the Invention] This invention relates to the bidirectional knowledge offer system and the bidirectional knowledge offer approach an artificer can develop and take shape and can share easily the idea which offered the idea mutually and created it, and a bidirectional knowledge distribution program.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

PRIOR ART

[Description of the Prior Art] In the former, when an artificer created a certain idea, it developed the idea more and developed, or taking shape was performed by only the artificer who is a natural person, and various kinds of databases and websites were referred to in collection of the knowledge etc. Moreover, like the search engine on the Internet, the technique in which knowledge is automatically collectable through a network has spread quickly, and, recently, an artificer has come to be provided with knowledge which becomes the kind of an idea abundantly and simply. Furthermore, in having created the idea, having materialized the idea, or developing, by performing brainstorming by many artificers, each other knowledge was able to be complemented, it was able to suit and better invention was also able to be built.

[0003] Moreover, the system which collects knowledge automatically as mentioned above is very useful although the information relevant to an attention technique is efficiently collected in the time of a surfeit of information. The technique of an indication is known by JP,2000-57077,A, JP,11-184874,A, JP,10-91647,A, etc. as such a thing that collects knowledge automatically.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

EFFECT OF THE INVENTION

[Effect of the Invention] As explained above, at the bidirectional knowledge offer system (claims 1-3), the bidirectional knowledge offer approach (claim 10), and bidirectional knowledge distribution program (claim 16) of this invention, by ***** to which other users give a comment to the idea which the user proposed, knowledge is offered mutually, and a user can materialize an idea and can develop. [0088] Moreover, by the bidirectional knowledge offer system (claim 4) of this invention, and the bidirectional knowledge offer approach (claim 12), since a Web page is collected and put in a database periodically and a user can peruse this, information which serves as a hint of an idea can come to hand [a user] easily. For this reason, knowledge information, such as an idea, can be developed further. [0089] Moreover, by the bidirectional knowledge offer system (claim 5) of this invention, and the bidirectional knowledge offer approach (claim 13), since the hierarchy of the link of a Web page is specified and Web pages are collected within that hierarchy, it can prevent that useless information is collected. Furthermore, in the bidirectional knowledge offer system (claim 6), the bidirectional knowledge offer approach (claim 11), and bidirectional knowledge distribution program (claim 17) of this invention, by carrying out string attachment ***** of the information source used as the hint of an idea with an idea, it is easy to check the credibility of an idea and another idea can also be created from that information source.

[0090] Moreover, by the bidirectional knowledge offer system (claim 7) of this invention, a user can acquire knowledge now easily by carrying out the full-text search of a knowledge information database and/or the Web page database. Moreover, by the bidirectional knowledge offer system (claim 8) of this invention, and the bidirectional knowledge offer approach (claim 14), since the individual keyword is registered beforehand, a keyword automatic mortgage is performed for knowledge information and/or a Web page and it was made to notify by E-mail, the newest information related to a user becomes easy to come to hand, and it contributes to brush up of an idea.

[0091] Moreover, in the bidirectional knowledge offer system (claim 9) of this invention, since it was made to perform patent retrieval by the keyword about an idea, useless researches and developments are prevented and it becomes easy to create a new idea from that retrieval result. Furthermore, by the bidirectional knowledge offer approach (claim 15) of this invention, the contents which be not known to other users can be exchanged with the user who proposed the idea by carrying out processing of a manager's comment etc. in which it does not indicate.

[0092] As mentioned above, according to this invention, a user can offer knowledge mutually, can develop and materialize the created idea, and can share that progress and a result now.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] However, although there is an advantage that creation of an idea is performed in a burst of enthusiasm, and communication between artificers can be taken, by the above-mentioned conventional technique since an ensemble activity is needed when actually performing brainstorming etc., there is a fault that an individual pace is disturbed conversely, or an idea stops coming out in a collective ambient atmosphere, and it may hesitate an utterance. Furthermore, it is necessary to secure time amount and a location in an ensemble activity, and it will be difficult to gather by those which belong to a distant place of business especially in the big business, only neighboring persons will gather after all, and creation of an idea with wide width of face may be barred.

[0005] Moreover, in the conventional idea creation technique, although the knowledge used as the kind of an idea may be collected using the Internet etc., the two-way communication in the Internet does not develop an idea by exchanging knowledge mutually substantially, and is [that a target is only provided with information on the other hand from a server, and]. Moreover, since many noises are contained, the information offered has the fault that the concentration for idea development is distributed.

[0006] Here, NetNews (Net News) exist in what is widely used as a function of the Internet. These NetNews are the forum and the service like a notice plate in the conventional personal computer communication service which exchange information among two or more users, and it is also possible for two or more users to exchange opinions. However, NetNews are open and cannot be used as a development tool of the new technique containing many trade secrets. On the other hand, when artificers offer an idea using an electronic mail, if the contents of information accumulated increase, collection will not stick indeed. When exchanging knowledge especially using a mailing list among two or more artificers, arrangement of knowledge or an idea is serious.

[0007] Even if it takes which the conventional technique as mentioned above, it is not easy for artificers to offer knowledge mutually, to develop and materialize the created idea, and to share the progress and a result. Then, this invention is made in view of such a trouble.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

MEANS

[Means for Solving the Problem] In order to attain the above-mentioned purpose, the bidirectional knowledge offer system concerning claim 1 The server prepared on the network which specific a large number, such as LAN (local area network) and WAN (wide area network), use, Two or more clients connected to the server by said network, While registering the knowledge information containing the idea of the user of 1 based on the demand to said server of a client, it is characterized by having the knowledge information database which registers knowledge information including other users' comment to the knowledge information concerned.

[0009] Concrete invention, mere information disclosure, etc. are included in said knowledge information besides an idea. Moreover, although the Internet which many and unspecified persons use is not contained in said network, even if it uses the Internet, when bringing a result substantially used by specific a large number, the Internet is also contained in said network.

[0010] Moreover, the bidirectional knowledge offer system concerning claim 2 is characterized by to have the knowledge information database which registers knowledge information including other users' comment to the knowledge information concerned while it registers the knowledge information containing the idea of the user of 1 based on the demand to the server prepared on the network which specific a large number, such as LAN and WAN, use, and said server from the client which went via said network. In this invention, if said client can give a demand to a server through said network, it may be installed abroad.

[0011] Moreover, the bidirectional knowledge offer system concerning claim 3 is characterized by to have a perusal means to by _which said user and other users of 1 peruse at least the knowledge information containing the idea further registered by said user of 1 registered into said knowledge information database, and knowledge information including the comment registered by the user besides the above mutually in the above-mentioned bidirectional knowledge offer system. Thus, sharing of knowledge information is attained by perusing mutually.

[0012] Moreover, the bidirectional knowledge offer system concerning claim 4 In the above-mentioned bidirectional knowledge offer system, further, while connecting with said network The internet server connected to the Internet through the fire wall, A Web page collection means to patrol periodically the Web page linked from a specific homepage and the specific homepage concerned, and to collect the newest Web pages concerned, It is characterized by having the Web page database which accumulates the Web page collected with the Web page collection means, and a Web page perusal means by which said user peruses the Web page accumulated in the Web page database.

[0013] Moreover, in the above-mentioned bidirectional knowledge offer system, the bidirectional knowledge offer system concerning claim 5 specifies further the hierarchy of the link of the Web page linked from said homepage, and is characterized by having a hierarchy assignment means to collect Web pages within the hierarchy.

[0014] Moreover, the information source in which the knowledge information which contains said idea in the above-mentioned bidirectional knowledge offer system was provided with the bidirectional knowledge offer system concerning claim 6 by said users of 1, such as the newspaper article and paper used as the hint of an idea, and a Web page, is included, and said knowledge information database is characterized by carrying out string attachment ***** of the information source concerned with the idea.

[0015] Moreover, the bidirectional knowledge offer system concerning claim 7 is characterized by

having further the retrieval means which carries out the full-text search of said knowledge information database and/or the Web page database in the above-mentioned bidirectional knowledge offer system. [0016] Moreover, the bidirectional knowledge offer system concerning claim 8 An individual keyword registration means to register a user's individual keyword beforehand further in the above-mentioned bidirectional knowledge offer system, It is aimed at the knowledge information and/or the Web page which were accumulated in said knowledge information database and/or the Web page database. A keyword automatic mortgage activation means to perform a keyword automatic mortgage by said registered individual keyword, It is characterized by having a notice means of an electronic mail to notify the corresponding knowledge information and/or the information about a Web page to said user's client with an electronic mail from said server.

[0017] Moreover, in the above-mentioned bidirectional knowledge offer system, the bidirectional knowledge offer system concerning claim 9 is inputting the keyword about the knowledge information which has a patent information database and contains said idea further, and is characterized by having the patent retrieval system in which a precedence technical survey is possible.

[0018] Moreover, the bidirectional knowledge offer approach concerning claim 10 The process which registers delivery and the knowledge information concerned into a knowledge information database from a client at a server via the network where specific a large number, such as LAN and WAN, use the knowledge information containing the idea inputted by the user of 1, The process which transmits said registered knowledge information to a client from a server via said network by the demand from other users' client, It is characterized by including the process registered into a knowledge information database with the knowledge information which includes knowledge information including the comment inputted by other users for delivery, and includes the knowledge information concerned for said idea in a server from a client via a network.

[0019] Moreover, in the above-mentioned bidirectional knowledge offer approach, in case the bidirectional knowledge offer approach concerning claim 11 registers said idea into a knowledge information database for the information source further offered by said users of 1, such as the newspaper article and paper used as the hint of said idea, and a Web page, it is characterized by including the process which carries out string attachment ***** with the idea concerned.

[0020] Moreover, in the above-mentioned bidirectional knowledge offer approach, the bidirectional knowledge offer approach concerning claim 12 patrols periodically the Web page which connects to the Internet and is further linked from a specific homepage and the specific homepage concerned, and is characterized by including the process which collects the newest Web pages concerned, and the process which accumulates the collected Web pages in a Web page database.

[0021] Moreover, in the above-mentioned bidirectional knowledge offer approach, at the process which collects said Web pages, the bidirectional knowledge offer approach concerning claim 13 specifies the hierarchy of the link of the Web page linked from said homepage, and is characterized by collecting Web pages within the hierarchy.

[0022] Moreover, the bidirectional knowledge offer approach concerning claim 14 The process which registers a user's individual keyword beforehand further in the above-mentioned bidirectional knowledge offer approach, It is aimed at the knowledge information and/or the Web page which were accumulated in said knowledge information database and/or the Web page database. It is characterized by including the process which performs a keyword automatic mortgage by said registered individual keyword, and the process which notifies the corresponding knowledge information and/or the information about a Web page to said user's client with an electronic mail from said server.

[0023] Moreover, in the above-mentioned bidirectional knowledge offer approach, the bidirectional knowledge offer approach concerning claim 15 selects a manager from said users, and is characterized by to include the process which carries out processing of the knowledge information including the comment and evaluation by said manager to the knowledge information containing the idea of said user of 1 in _which it does not indicate, to said user of 1, and users other than a manager.

[0024] Moreover, the bidirectional knowledge distribution program concerning claim 16 The process which registers delivery and the knowledge information concerned into a knowledge information database from a client at a server via the network where specific a large number, such as LAN and WAN, use the knowledge information containing the idea inputted into the computer by the user of 1, The process which transmits said registered knowledge information to a client from a server via said network by the demand from other users' client, It is for performing the process registered into a

knowledge information database with the knowledge information which includes knowledge information including the comment inputted by other users for delivery, and includes the knowledge information concerned for said idea in a server from a client via a network.

[0025] Moreover, in the above-mentioned bidirectional knowledge distribution program, in case the bidirectional knowledge distribution program concerning claim 17 registers said idea into a knowledge information database for the information source further offered by said users of 1, such as the newspaper article and paper which became a computer with the hint of said idea, and a Web page, it is for performing the process which carries out string attachment ***** with the idea concerned.

[0026]

[Embodiment of the Invention] Hereafter, it explains to a detail, referring to a drawing per this invention. In addition, this invention is not limited by the gestalt of this operation. Drawing 1 is the conceptual diagram showing the knowledge system 100 concerning the gestalt of implementation of this invention. This knowledge system 100 consists of a server 103 connected to the Internet 102 through the enterprise network 101, and two or more clients 104 connected to the server 103 through the enterprise network 101. LAN and WAN which connected LANs in a place of business by the permanent communication circuit are contained in the gestalt of an enterprise network 101. Said server 103 functions as an intranet server for in the company which it not only functions as an internet server for external, but has various server ability, such as the WWW (world wide web) server and database server which were built in the Ethernet (trademark) environment, a mail server, and a FTP server. Even if are carried in one computer which constitutes an enterprise network 101, and these server programs assign a computer for every server, they are not cared about.

[0027] Although a server 103 can be accessed with the intranet which said client 104 carried the browser for intranets, and was built on LAN, client 104 self cannot access the Internet 102, but can access only said server 103. Moreover, a fire wall 105 is installed between the Internet 102 and an enterprise network 101. In addition, two or more said fire walls 105 may be installed not only between the Internet 102 and enterprise networks 101 but in an enterprise network. In addition, a client 104 side is equipped with the scanner (illustration abbreviation) for changing the text file of paper into electronic data.

[0028] Drawing 2 is the functional block diagram of the knowledge system shown in drawing 1 . Said server 103 is equipped with the processing section 106, the storage section 107, an internet server 108, and a fire wall 105. Moreover, the information gathering section 110 which collects information in a user inputting an idea, a comment, the information source, etc. from a client 104, The idea database 111 which accumulates information, such as an inputted idea, The page copy section 112 which copies the Web page of the Internet course and specification periodically, and updates it, The Web page database 113 which accumulates the copied Web page, The search engine 114 which performs a full-text search to the contents of the idea database 111 and the Web page database 113, The contents of the idea database 111 and the Web page database 113, The keyword automatic mortgage activation section 115 which draws automatically the keyword which the user registered, The electronic mail issue section 116 which notifies a user of the purport to which the comment was added to the proposed idea, It has the setting information processing section 117 which performs registration, user registration, etc. of a theme, the setting information database 118 which accumulates the contents of registration by the setting information processing section 117, the dictionary retrieval section 120 and the dictionary database 121, and the Web page comparator 122.

[0029] Each client 104 has input section 104a, such as a keyboard and a mouse, and display 104b, such as CRT and a liquid crystal display. Moreover, the patent retrieval system 123 and the documentation system 124 are connected to the network 101.

[0030] [the function of a knowledge system] -- this knowledge system 100 is a system which inputs the idea which each user (personnel who usually registered) created based on the information sources, such as a newspaper, reference, in-house data, a paper, and a Web page, promotes brush up of an idea by attaching a comment to this, and can materialize an idea. Moreover, a user discovers the information and the newest information on a specific field which are likely to become the hint of an idea from the information on newspaper etc. on his own initiative, it registers with the idea database 111 of a server 103 in inputting this from a client 104, and idea creation is promoted by perusing this freely.

[0031] Furthermore, other users can attach a comment to the information source used as these ideas or a hint. In addition, the idea database 111 is classified and accumulated for every theme, such as wind power, biomass, and a fuel cell, and theme managers (for example, personnel of a managerial position

who registered) are assigned for every theme. A theme manager can input evaluation of not only attaching a comment to an idea but the idea concerned. Moreover, it has the authority to choose public presentation/secret one of these comments or evaluation.

[0032] Next, since a limitation is in information gathering by the newspaper by each user individual, reference, etc., URL (uniformresource location) of Web page 119 on the Internet about a specific field is registered beforehand, information is automatically gathered by the auto pilot program carried in the server 103, and it accumulates in the Web page database 113 for every Web page and every theme. Each user can peruse the Web page collected by accessing and carrying out retrieval by keyword to the Web page database 113 from a client 104. Many main functions of the knowledge system 100 are explained concretely below.

[0033] Idea comment add function : an idea comment add function The idea which the user created based on the information source of a newspaper, reference, etc. is inputted into a server 103 from a client 104. It is the function which it is classified for every theme and accumulated in the idea database 111. Other users can access the idea database 111 concerned freely. interest -- it is -- or with reference to the idea of the field which is taking charge of self, various comments, such as evaluation, an improvement proposal, an addition idea, and related information, can be inputted to the idea concerned, without referring to or. Moreover, all users can also peruse these various comments with an idea, and they can also attach a comment further to the comment concerned. Thereby, it not only shares an idea by all users, but it can brush up the idea concerned on a network 101 by addition of the comment by the multiple user.

[0034] Upload function: A upload function is a function which carries out the string price of the newspaper which became a hint on the occasion of an idea proposal, reference, in-house data, a paper, the Web page, etc. to the idea concerned, and is uploaded and accumulated in the idea database 111. a string -- the information which is extent with other users accessible to the information which became the hint of a specific idea at least as a gestalt of the price -- an idea -- adding -- it is necessary to accumulate -- one idea -- receiving -- an unit or two or more information sources -- a string -- the price -- ***** is possible. moreover, a string -- ***** is also good in all the information sources to the whole idea as a gestalt of the price -- carrying out -- every part of an idea -- respectively -- the information source -- ***** -- it is good even if like. actual -- the idea screen top of a client 104 -- a string -- the price -- URL of a Web page is displayed as ***** , or a reference name is displayed. in the case of a principle and idea registration, although the information source is ***** , it can also accumulate only the information source in the idea database 111 at the idea concerned. the title (for example, titles, such as "a collection of new energy hints") according to which the information source was classified for every specific field at this time -- a string -- the price -- *** .

[0035] Auto-pilot function: An auto pilot function peruses the Web page which carried out collection are recording of the target Web page, and were collected off-line, incorporates periodically Web page 119 on the Internet 102 beforehand registered into the server 103, and accumulates it in the Web page database 113. Web page 119 to register registers two or more the URL with regards to each theme, patrols it periodically, and is updated to the newest thing. Each user is accessing Web page 119 incorporated by the auto pilot, and becomes available [new information] from every client 104.

[0036] Moreover, the function to specify the hierarchy of Web page 119 who registered as an auto pilot function is included, and it prevents collecting to unnecessary information by specifying the hierarchy of a link. Moreover, although specific Web pages 119 are periodically collected by the auto pilot and the contents are updated to the newest thing, when a user peruses the Web page 119, it also has the function for where to differ from the former contents, or to direct a modification part on a screen since it is unclear.

[0037] Full-text-search function: A full-text search function can be performed to the information accumulated in the idea database 111 and the Web page database 113. Moreover, about the idea database 111, it can carry out for the outline and keyword which are contained in the inputted idea or the information source. A retrieval result is displayed as a title, URL, etc. of an idea, and the outline is also displayed collectively.

[0038] My page function: A my page function displays the idea which is a Web page for each user individuals, and favorite URL of the individual in the Web page database 113 and self proposed. Moreover, by registering beforehand the keyword of the field in which he wants to assemble each user, automatic retrieval of the Web page database 113 and the idea database 111 is carried out periodically,

and when the idea and the information source corresponding to the keyword are discovered, a title, URL, etc. of the idea are notified by E-mail. The contents of the electronic mail are displayed in each user's my page.

[0039] Notice function of an electronic mail: A comment is added to the idea which other users proposed when there was a comment of evaluation, an improvement proposal, etc. from other users to the idea inputted by the user, and the notice function of an electronic mail notifies a predetermined user of that by E-mail, when the keyword which self registered into the comment concerned has agreed. The contents of the electronic mail are displayed in a my page.

[0040] Theme add function: A theme add function registers a theme to brush up and is mainly given by the personnel of a managerial position etc. Moreover, a general user is also able to register, authorization by the personnel of a managerial position etc. may be needed in that case, and it is made to carry out theme registration freely. A theme manager will be selected if a new theme is registered.

[0041] Drawing 3 is a screen transition diagram displayed by the client side. The usage of the knowledge system 100 is outlined with this drawing. In a user inputting a predetermined keyword etc. on the log in screen 201, it shifts to the theme list screen 202 from the log in screen 201. In addition, in order for a user to use the knowledge system 100 effectively, it is necessary to perform registration processing of a user on the user registration screen 203. The contents of registration are a user name, affiliation, etc. Then, it moves to the individual keyword registration screen 204, and the setting information processing section 117 of a server 103 registers the keyword concerned into the setting information database 118 in a user inputting an individual keyword. Thereby, a user becomes usable effectively about the knowledge system 100. Moreover, a theme is registered on the theme registration screen 205. The inputted theme is registered into the setting information database 118 by the setting information processing section 117.

[0042] The proposal of an idea is performed on an idea and the information source registration screen 206. If a user inputs an idea and the information source, an input check will be performed on an idea and the information source input check screen 207. It can input similarly about the information source used as the hint of an idea. If it finishes inputting an idea etc., it moves to an idea and the notice screen 208 of information source completion, and a server 103 will tell a user that and will return to the theme list screen 202. Here, it can search with the patent retrieval system 123 whether there is any idea similar to the idea which it is going to register on an idea and the information source registration screen 206. A user inputs a specific keyword and searches a patent database in the company with the precedence technical survey screen 209 based on this keyword. A retrieval result is displayed on the retrieval result display screen 210, and the detail is displayed on the contents display screen 211. Next, when searching the registered idea and attaching a comment to this idea, it moves to the retrieval condition input screen 212 by actuation of a client first, and the idea of the idea database 111 is searched based on retrieval conditions.

[0043] If retrieval is completed, the idea list screen 213 will move to contents display of idea / comment input screen 214 by it being displayed and choosing the idea by which it was indicated by the list input, and a user can peruse an idea on this screen. In addition, idea retrieval can also be performed using the keyword of the keyword list screen 215. Moreover, a comment can be attached to the idea currently displayed by the contents display of idea / comment input screen 214 concerned. If a comment input is completed, the contents of a comment will be checked with the comment input check screen 216. A comment is registered into the idea database 111, and the purport which the comment input completed is displayed on the comment input check screen 216, and it returns to the theme list screen 202.

[0044] Moreover, when performing the full-text search of the idea database 111 and the Web page database 113, retrieval conditions are inputted on the full-text search condition directions screen 218, and the result searched according to this retrieval condition is expressed as the retrieval result list screen 219. And the contents can be perused in a detail on the result page screen 220 by choosing the contents which want to see a list screen. Next, when perusing the contents of the newest Web page incorporated by the auto pilot, a list is displayed even to the low order hierarchy who specified the Web page collected on the collection site top page screen 221 and the collection site low order page screen 222. If URL of this list is chosen, the contents of a detail can be perused in the contents display screen 223.

[0045] Moreover, the notice screen 224 of an electronic mail is displayed in any phases at the time of discovering the information corresponding to the keyword which carried out self-assignment when a comment is attached to an idea etc., and a user is notified of that in the screen concerned. A my page is a

page only for [each] users on intranet, and the URL list of each user's my pages is displayed on the my page screen 225 (next detail explanation and illustration are omitted). The contents of the my page are displayed on the contents display screen 226 by choosing predetermined URL from a list of the my page screen 225. Then, an individual keyword to set self can be inputted in the keyword input screen 227 (the individual keyword registration screen 204 and a common screen are sufficient).

[0046] Moreover, other users can search with the my page retrieval screen 228 the my page which each user has. It searches by inputting a specific user name or inputting a keyword etc. A retrieval result is displayed on the my page list screen 229. ***** which the contents of the my page are displayed by choosing specific URL of a list, and attaches a comment in the contents display screen 230 of a my page is made. For example, the idea of the user who is the owner of that my page etc. is carried on my page, and ***** which attaches the comment of evaluation etc. within a my page to this idea is made to it. If a comment is inputted, it will check on the comment input check screen 231, and a user is notified of the comment input having been completed on the notice screen 232 of the completion of a comment input.

[0047] Moreover, this knowledge system 100 can set up the site collected because a user registers desired URL on the collection site setting screen 233, although a server 103 collects the information on specific Web page 119 through the Internet 102. The hierarchy of Web page 119 who collects with this can be determined. A hierarchy prevents that collection is performed to infinity by making into the 2nd hierarchy the Web page which moved from this homepage by making a homepage into the 1st hierarchy, making into the 3rd hierarchy the Web page which moved from the Web page concerned, and setting up the hierarchy of a Web page who collects. If a setup of URL and a hierarchy is inputted, it will check on the input check screen 234. Registration of URL notifies a user of that on the notice screen 235 of the completion of a URL input.

[0048] Furthermore, the partner who wants to require a comment on the Request-For-Comments screen 236 can be specified. A specific user advances a Request For Comments to another user who is a superior official under the direct control by the Request-For-Comments screen 236. On the user input check screen 237, the name of the user who inputted etc. is displayed and a user is notified of the purport which the input completed in the notice screen 238 of user input completion. In addition, the specified user is notified of the purport as which the comment was required on the notice screen 224 of an electronic mail. Moreover, if the self word and technique which are not known are included in an idea or the contents of the comment, since brush up of an idea will be checked, the dictionary database 121 by the side of a server is automatically searched with directing WORD unknown on the lexicon screen 239, and a dictionary result is displayed on the result display screen 240 by it.

[0049] Each function is explained to a detail, referring to [detail explanation of each function], next the concrete display screen. Drawing 4 is the explanatory view showing the contents of a display of the homepage of a knowledge system. When a server 103 is accessed from a client 104, a homepage 301 is first displayed on display 104b. A user enters self user ID and password into the ID input column 302 and the password input column 303 from input section 104a, and chooses the carbon button 304 of a log in. This User Information is sent to a server 103 from a client 104, and the setting information processing section 117 of a server 103 collates the user ID and the password which are registered into the setting information database 118, and performs a licence judging of the user concerned.

[0050] Moreover, in this knowledge system 100, the themes (for example, "wind power", "biomass", etc.) which register an idea are determined beforehand. It is the personnel of a managerial position with for example, a theme manager's rating etc. that perform registration of a theme on the theme registration screen which is not illustrated, and registration of a theme is allowed. Moreover, the general user who is personnel can also get authorization from the personnel of managerial positions, such as a superior official, and can register a theme. The inputted theme is processed in the setting information processing section 117, and is registered into the setting information database 118.

[0051] User registration is performed on the user registration screen which is not illustrated, and is performed in inputting User Information of user ID, a name, affiliation, a password, etc. Inputted User Information is processed in the setting information processing section 117, and is registered into the setting information database 118. In addition, after user ID and a password register other User Information, you may have them automatically published from the knowledge system 100.

[0052] If logged in to the knowledge system 100, the theme list screen 305 as first shown in drawing 5 will be displayed. The theme set as the object of an idea proposal is displayed on the theme column 306 of the theme list screen 305. Moreover, the registration Japanese column 307, the theme manager

column 308, and the number column 309 of proposals are formed in the theme list screen 305 concerned, and it is displayed on it with said theme. Moreover, the alphabetic character of homepage retrieval and a collection site list is displayed on the theme list screen 305, and the link is set to this alphabetic character.

[0053] When a user proposes an idea about a desired theme, registration processing of an idea and the information source is required from a server 103 by first choosing the proposal carbon button 310 of the theme (for example, "wind power") displayed on the theme list screen 305 by input section 104a. This shifts to an idea and the information source proposal screen 311 as shown in drawing 6. A theme, a proposer, and a proposal day are displayed on an idea and the information source proposal screen 311, and the title input column 312 of an idea, the outline input column 313 of an idea, the keyword input column 314 of an idea, and the comment input column 315 from a proposer are displayed.

[0054] The idea (for example, "it is beautiful, if LED is attached to a wind mill and it is rotated" etc.) which a user wants to propose is concretely inputted into the outline column 313 of said idea. Moreover, a comment is inputted into said comment input column 315 when the proposer itself wants to attach a comment to the idea concerned. A keyword may take out the keyword list screen 316 as a user inputted freely or shown in drawing 7, and may choose it from the list concerned. Since a keyword uses for retrieval of an idea behind, it is desirable to input many suitable keywords.

[0055] If an idea etc. is inputted, the information source which became the hint of the idea concerned can also be inputted. Down the idea and the information source proposal screen 311 shown in drawing 6, the identifier input column 317 and the URL input column 318 of the information source as shown in drawing 8 are prepared. A user inputs the identifier and URL of this information source. Furthermore, below, the information source input column as shown in drawing 9 is prepared. A user can take, come out of and do a file from the existing documentation system 124 connected by LAN. This information source input column is equipped with the identifier input column 319 which inputs the identifier of the paper put in a database by the documentation system 124, the storage number input column 320 which inputs the storage number of that documentation system, and the order item input column 321. A user names the file while inputting the storage number 320 of a file, and he inputs the number of an order item preferably.

[0056] After a user inputs an idea and the information source, while a client 104 transmits data, such as an idea, to a server 103 by choosing the proposal carbon button 322, registration of these ideas etc. is required. A demand of registration of an idea etc. displays the check screens 323 and 324, such as an idea as shown in drawing 10 and drawing 11. While the contents which carried out [above-mentioned] the input are displayed, the registration carbon button 325 is displayed on these check screens 323 and 324. A user chooses the registration carbon button 325 concerned after checking the contents. Thereby, said information gathering section 110 registers the idea concerned, a comment, and the information source into the idea database 111. Especially about the information source, string attachment ***** is carried out to the inputted idea. thus, the information source of the website which became a hint to the inputted idea -- a string -- the price -- it can use for evaluation, brush up, etc. of the idea concerned by *****. Moreover, other users can know the basis of an idea clearly.

[0057] What is necessary is just to relate with extent for which other users realize what the information source used as the hint of the idea concerned is, when it displays at least that an idea registers by string attachment. When said information source is a Web page preferably, URL of the information source is displayed, or a link is set up and displayed on the identifier of the information source. If an idea etc. is registered, the notice of the completion of registration will be made from the information gathering section 110 to a client 104 on the notice screen of completion which is not illustrated. In addition, you may make it newly build a documentation system in a knowledge system not using the existing documentation system 124 as mentioned above.

[0058] Moreover, a user shifts to the file registration screen 327 as shown in drawing 12 by choosing the file registration carbon button 326 currently displayed on the check screens 323 and 324, and can register the file of the stock used as the hint of an idea into the idea database 111. As a stock file, the file memorized, for example to the store of a client 104, the file of the bit map format or text format read with the scanner, etc. can be registered. The identifier input column 328 of a file and the file name input column 329 are formed in the file registration screen 327. A user names this stock file and inputs into the identifier input column 328. Moreover, even if it inputs a file name as it is, it displays a list, is chosen from them and you may make it input it by choosing the reference carbon button 330 (illustration

abbreviation). thereby -- a stock file -- the information source -- carrying out -- an idea -- a string -- the price -- ***** can be carried out.

[0059] Moreover, the carbon button 331 of a patent precedence technical survey is formed in the idea and the information source collection screen 311, and it shifts to the precedence technical survey screen 332 as shown in drawing 13 because a user chooses the carbon button 331 concerned. The object-choice column 333 which specifies the part for investigation, for example, an epitome, a claim, etc., and the input column 334 which inputs an applicant name, a keyword, etc. are formed in the precedence technical survey screen 332. If the retrieval carbon button 335 is chosen and retrieval is required of a server 103 from a client 104 after inputting a need matter into these, a server 103 will access the patent retrieval system 123 in the company connected to LAN. The patent retrieval system 123 is accumulating the contents of the patent application by which application public presentation was carried out in the past in the patent database, and can search invention which relates to patent application from a keyword etc. In addition, you may make it newly build the patent retrieval system 123 in the knowledge system 100.

[0060] It is transmitted to a server 103 via LAN from the patent retrieval system 123, and a retrieval result is displayed on the retrieval result display screen 336 as shows the contents to drawing 14. If a user chooses as the retrieval result display screen 336 the official report number by which it was indicated by the list, he will require that a server 103 should offer detailed information to the patent retrieval system 123. The patent retrieval system 123 returns detailed information according to the demand from a server 103, and a server 103 displays the contents of a detail on the contents display screen (illustration abbreviation). By performing this patent retrieval, the idea concerned can be brushed up further. Moreover, the freshness and progressivity of an idea can be judged and implementation of useless researches and developments can be prevented. In addition, the patent information which it is as a result of retrieval can also be registered as the information source.

[0061] Drawing 15 is the explanatory view showing the contents of a display of the retrieval condition input screen 337 when searching the registered idea. When other users comment on the registered idea, a user chooses the theme of the request currently shown in the theme column 306 of the theme list screen 305 by input section 104a, and it shifts to the retrieval condition input screen 337 for this to search an idea within a theme. The keyword input column 338 and the selection column 339 of the order of a list of a retrieval result are formed in the retrieval information input screen 337. A keyword input takes out the keyword list screen 316 as shown in drawing 7, and you may make it choose it from them. Other users input the keyword of the technical contents which want to search self, and choose the retrieval carbon button 340. The demand of retrieval is made by the server 103 from a client 104 by this, and the search engine 114 of a server 103 searches the idea database 111.

[0062] A retrieval result is sent to a client 104 from a server 103, and is expressed as the idea list screen 341 shown in drawing 16. The contents 342 of a display are the outlines of the title of the idea corresponding to a keyword, a proposal day, a proposer, and an idea. Moreover, if the listing carbon button 343 in a screen is chosen and a client 104 requires a detailed list from a server 103, detailed data will be sent from a server 103 and it will be displayed on a detail by contents display of idea / comment input screen 344 as shown in drawing 17. All over the detailed display screen of this idea, the persons-concerned comment input column 345 is formed. Other users can input the comment to the idea concerned into this persons-concerned comment input column 345. For example, the comment of that it is necessary to examine how it attaches although LED is attached to a blade, "being ?" is inputted. All other users can peruse the comment concerned with an idea. Thus, the idea concerned is brushed up in brainstorming by other users enabling it to input a comment to the proposed idea. Moreover, an idea examination meeting can be held on a network, without each user being restrained by time amount.

[0063] Moreover, the link is established in the alphabetic character part 346 of the information source, and the Web page used as a hint etc. can be perused by choosing the alphabetic character part 346 concerned. Other users can perform an exact comment by perusing the information source used as the idea currently displayed and a hint. Moreover, it becomes easy for other users to create a new idea according to the information source.

[0064] Moreover, when self is a theme manager, the manager comment field 347 as shown in drawing 18 by contents display of idea / comment input screen 344 are displayed, and a comment input is attained. For example, a manager comment, such as "thinking that popularity may come out of the product which attached LED to the wind mill around Germany", can be inputted. Furthermore, a

manager can attach evaluation to the idea concerned. The evaluation column 348 is ranked by A, B, and C, and is inputted with a manager checking this. These manager comments are sent to a server 103 from a client 104, and are registered into the idea database 111 by the information gathering section 110.

Moreover, you may make it input the point as evaluation to an idea (illustration abbreviation). The point is added for every user and can be used for performance evaluation etc. Furthermore, a manager can also indicate a comment and evaluation to other users as mentioned above, and can presuppose un-indicating the comment which self inputted with checking the non-indicating column 349.

[0065] Furthermore, when there is a word which is the case where the contents of the idea are perused and the contents do not understand, the dictionary screen 351 as shown in drawing 19 by choosing the dictionary carbon button 350 of the contents display of idea / comment input-screen 344 bottom is displayed. Two or more alphabetic character input columns 352 are formed in the dictionary screen 351, and a word to lengthen in this alphabetic character input column 352 is inputted. For example, if an "aerogenerator" is inputted and the activation carbon button 353 is chosen, a retrieval demand is made by the server 103 from a client 104, and the dictionary retrieval section 120 will search the dictionary database 121, and will return the contents of the word concerned to a client 104. A dictionary result is displayed in the contents column 355 of the dictionary result screen 354 as shown in drawing 20 . When two or more words are inputted, two or more contents columns 355 are displayed on the dictionary result screen 354.

[0066] Moreover, only a manager can delete the idea which the user inputted. As shown in drawing 21 , the deletion carbon button 357 is displayed on a theme manager's idea list screen 356 for every idea. A client 104 gives a deletion demand to a server 103 because a theme manager chooses the deletion carbon button 357, and the idea to which the information gathering section 110 corresponds from the idea database 111 is deleted.

[0067] Moreover, a theme manager can determine the affiliation user of the theme which self manages on the theme affiliation person setting screen 358 shown in drawing 22 . The list of a user which is carrying out user registration to the knowledge system 100 is displayed on the theme affiliation person setting screen 358, and the user who belongs to the theme of self [choosing a specific user's selection carbon button 359 out of this] is determined as it. User affiliation information is registered into the setting information database 118 by the setting information processing section 117. The user who belonged to the theme can use a series of functions about the themes concerned, such as a proposal of the above-mentioned idea, and a comment input. On the other hand, although the user who does not belong to the theme concerned can peruse the idea which other users registered, comment **** [and] is not made. [proposing an idea about the theme concerned]

[0068] Furthermore, each user can specify the user whom I want to input a comment. The user who made the idea proposal is choosing the Request-For-Comments carbon button 360 prepared in the idea and the information source proposal screen 311, and can shift to the Request-For-Comments screen 360 shown in drawing 23 . The Request-For-Comments point input column 361 which inputs the name of the user who wants to carry out a Request For Comments etc., and the contents input column 362 of a demand which inputs what kind of comment is required are formed in the Request-For-Comments screen 360. The name of for example, a theme manager or a superior official, user ID, etc. are inputted into the Request-For-Comments point input column 361, and a phase hand is specified as it. The contents of a demand of "wanting you to judge whether it is effective in enterprise" are inputted into the contents input column 362 of a demand. When a Request For Comments is carried out and other users specified as the demand place display an idea and the information source proposal screen 311, that is displayed automatically.

[0069] A notice is made by the user who proposed the idea with the electronic mail when other users comment to an idea as mentioned above. Those who did the comment input are notified of the purport that the notice screen 363 of an electronic mail as shown in drawing 24 performed the notice by the electronic mail. An electronic mail is sent to a client 104 from the electronic mail issue section 116, and the new-arrival mail 365 is expressed to the my page displayed on display 104b of a client 104 as the my page 364 shown in drawing 25 by the proposer of an idea. An idea proposer gets to know that the comment was attached to the self idea by the electronic mail, and the contents are displayed on the contents display column 366 of an electronic mail of the my page 364. Moreover, perusing contents display of idea / comment input screen 344 can also check the contents of a comment concerned.

[0070] Next, a user can search the specific Web page collected by the auto pilot function of the page

copy section 112. The collected Web pages are registered into the Web page database 113 according to a page. Drawing 26 is the explanatory view showing the contents of a display of the full-text search condition directions screen 367. The keyword input column 368, the display number-of-cases input column 369, and the display-format input column 370 grade are prepared in this full-text search condition directions screen 367, and it is collectively displayed by the explanation column 371 of narrowing down of retrieval conditions. A user is inputting the keyword about a technique searching in the keyword input column 368, and choosing the retrieval carbon button 372, and gives a retrieval demand from a client 104 to a server 103. The search engine 114 of a server 103 searches what agrees in a keyword from the Web page registered into the Web page database 113, and sends the result to a client 104.

[0071] The retrieval result list screen 373 shown in drawing 27 is displayed on display 104b of a client 104. An identifier, an outline, URL, etc. of the corresponding Web page are displayed on the retrieval result list screen 373, by choosing the identifier 374 of the request to which the user set the link, a client 104 requires the contents of a detail of a server 103, and a server 103 sends the contents of a detail to a client 104 according to the demand. The contents of a detail are displayed by the browser of a client 104 (illustration abbreviation). Thereby, the Internet environment in off-line is offered to each user.

[0072] Moreover, the Web page collected by the auto pilot can be chosen and perused on the collection site top page screen 375 shown in drawing 28 . In the collection site top page screen 375, a list indication of the name of the Web page registered beforehand is given (name column 376). Moreover, the hierarchy who collects for every Web page is set up (hierarchy column 377). It can prevent collecting unnecessary information by setting up this hierarchy. Assignment of a hierarchy is set up in inputting the number of hierarchies into the hierarchy assignment column 377. Moreover, round frequency is numerically displayed on the display column 378 of the round frequency of a Web page per moon. Moreover, it shifts to the collection site low order page screen 379 by choosing a specific Web page. The low order page of a Web page is displayed per hierarchy in a tree format as shown in drawing 29 . When collection site low order page either the collection site top page screen 375 or a screen 379 chooses the name with which the link was set up, the Web page can be perused.

[0073] Moreover, although the Web page to collect is updated by the newest contents at every round, it is not understood [which part is changed and] by the user side in many cases. For this reason, the part which compares the contents of the Web page before and behind updating, and is changed is directed. Drawing 30 is the flow chart of the directions display process of a Web page modification part. First, the time newest Web page is acquired through the Internet 102 about the same Web page (step S1). Next, the data of the acquired Web page and the data of the already registered Web page are memorized temporarily (step S2). Then, the Web page comparator 122 of a server compares the data of an old and new Web page (step S3). In addition, the thing of contents different naturally [the date of a Web page etc.] in a comparison is not taken as a comparative object. The part concerned is extracted and it memorizes temporarily (step S5) noting that the Web page registered into the Web page acquired newly as a result of a comparison is the part in which the part concerned was changed, when there is a different part ("Yes" of step S4).

[0074] Next, the Web page acquired newly is overwritten at the already registered Web page (step S6). And a directions display is performed to said extracted modification part (step S7). As a directions display, as shown, for example in drawing 31 (a), the modification part 380 in a Web page may be directed by pop up 381, and as shown in this drawing (b), you may surround and direct with a box 382. Moreover, you may make it display by different color from a surrounding color (illustration abbreviation). Thereby, a user can judge easily whether it is the part in which which part was changed, even when a Web page is updated. For this reason, the search of the information source becomes very easy. In addition, when a user checks a modification part and chooses the directions display concerned on a screen, processing which cancels the directions display concerned and is returned to the usual display can also be performed. Moreover, when a still newer Web page is overwritten to this updated Web page, said directions display can also be processed so that it may be made to eliminate or may add and leave information, such as the date.

[0075] Next, the homepage collected by choosing the setup key 383 of the collection site top page screen 375 can be set up. The contents of a display of the collection site setting screen 384 are shown in drawing 32 . The URL input column 385, the hierarchy input column 386, and the round frequency input column 387 are formed in the collection site setting screen 384. A user inputs and specifies the

hierarchy of a site who collects as the hierarchy input column 386 while inputting URL of the Web page which expects collection of the URL input column 385. Next, the frequency where patrol the Web page and the newest information is collected is inputted into the round frequency input column 387.

Moreover, the already set-up Web page can be chosen and it can delete with the deletion carbon button 388. Furthermore, when URL of the already set-up Web page is changed, the Web page concerned is chosen and URL is changed with the modification carbon button 389.

[0076] If an input is completed, user ID and a password will be entered and the O.K. carbon button 390 will be chosen. Thereby, a client 104 requires a setup of a collection site of a server 103, and it collates whether the setting information processing section 117 has a right of collection site setting modification to the user. For example, the right of collection site setting modification is granted to a theme manager etc., and the information is beforehand registered into the setting information database 118. When it is judged as a result of collating that the user has a right of collection site setting modification, the contents of the collection site are changed and it registers with the setting information database 118.

[0077] Moreover, each user has the my page of self. Drawing 33 is the explanatory view showing the contents of a display of a my page. The my page 391 is each user's homepage, and is equipped with an electronic mail function. The idea which self proposed is carried by the idea column 392 of the my page 391. The electronic mail carbon button 393 is formed in the my page 391 bottom, an e-mail check request is made by the server 103 from a client 104 by choosing this electronic mail carbon button 393, and it shifts to the contents display screen 394 of an electronic mail as shown in drawing 34.

[0078] When the information source of the idea which agreed in the registered individual keyword by the keyword automatic mortgage activation section 115, a collection site, etc. was discovered, or when a comment is attached to the idea which self proposed, it is notified by E-mail in the contents display screen 394 of an electronic mail. Specifically, it is displayed on the receiving box 395 of an electronic mail that the new-arrival mail 396 is conspicuous. Selection of this new-arrival mail 396 displays the newly-arrived contents of a comment on the electronic mail display 397. The contents of the attached file are perused by the WWW browser of a client 104 etc. Moreover, the example of the contents of a display of the electronic mail display 397 when the idea corresponding to the individual keyword registered into drawing 35 is discovered is shown.

[0079] Moreover, it shifts to the individual keyword registration screen 399 which a user shows to drawing 36 by choosing the keyword setup key 398 of the my page 391. In addition, the individual keyword registration screen 204 and common use are sufficient as the individual keyword registration screen 399. On the individual keyword registration screen 399, the keyword of information to collect in the keyword input column 400 is inputted, and by choosing the registration carbon button 401, the keyword concerned is sent to a server 103 and registered into the setting information database 118 by the setting information processing section 117.

[0080] Moreover, a user can search and peruse other users' my page 391. By choosing the my page retrieval carbon button 402 currently displayed on the my page 391, it shifts to the my page retrieval screen 403 shown in drawing 37. The User Information input column 404, the field input column 405, and the department-and-section input column 406 are formed in the my page retrieval screen 403. A user's name, user ID, etc. are inputted into the User Information input column 404. The keyword of the technical field which wants to search self is inputted into the field input column 405. The department and section which are taking charge of a technique to search are inputted into the department-and-section input column 406.

[0081] The retrieval demand of the idea database 111 is made by the server 103 from a client 104, and a search engine 114 searches the idea database 111 with a user choosing the activation carbon button 407. In the my page list screen 407 shown in drawing 38, the my page corresponding to said inputted contents is indicated by list as a result of retrieval. The name column 408, the address column 409, the affiliation column 410, and the outline column 411 of a theme are displayed on the my page list screen 407. The contents of a detail are sent and displayed from a server 103 by choosing a desired my page from this my page list. Thus, if it enables it to peruse an idea by the user unit, he can understand the whole thing which other users consider on the network, and the possibility of joint development with the user etc. can be assumed. Moreover, the personnel of a managerial position etc. have the advantage of a user's whole work being intelligible and becoming easy to evaluate.

[0082] As mentioned above, since it can peruse by all users that registered the idea into the idea database 111 and registered this idea according to this knowledge system 100, each user's idea is

sharable by all the members. Moreover, since other users can attach a comment to this idea, an idea can be brushed up in brainstorming on a network. Moreover, communication between users is achieved on a network and a better creation environment is offered. Moreover, since the unauthorized entry of a cracker is prevented by the fire wall 105 and it communicates off-line, an idea can be materialized, without the contents of development leaking outside.

[0083] Furthermore, since string attachment ***** of the information source which became the hint to the idea is carried out, it is easy to check the credibility of an idea and another idea can also be created from the information source. Moreover, registration of only the information source is also possible, and since the useful information source is sharable by all users, a new idea consists is easy to be created of the new information concerned. Furthermore, when registering an idea, it is not necessary to do brush up and useless researches and developments of a useless idea by performing a patent precedence technical survey. Moreover, it can consider as a better idea by advancing an advanced-technology patent further and proposing an idea.

[0084] Next, specific Web pages can be collected by the auto pilot, it can accumulate, the automatic mortgage of said collected Web pages can be carried out using an individual keyword, and a user can get information efficient by few efforts, and useful by notifying a user of the result by E-mail. Moreover, since it is notified by E-mail also when a self keyword agrees to other users' idea, a user can create an idea efficiently.

[0085] In addition, the existing PC server and a client machine can constitute the hardware of the above knowledge system 100. Moreover, software is Windows as an operating system. It is Oracle (trademark) to NT(trademark)4 grade and database software. They are IIS 4.0 and Netscape (trademark) to the 7th grade and Web software. Navigator, Internet It is Lotas to e-mail software, such as Namazu, in full-text search software, such as Explorer. It is Eir to auto pilot tools, such as a Notes mail dispatch tool. The software of marketing (all are brand names) of Grabber etc. can also be used.

[0086] Furthermore, the knowledge system 100 is realizable by making the computer which connected to LAN the storage which memorized the program (those combination is included when using commercial software) which realizes an approach given in the gestalt of the above-mentioned implementation read. Recording devices, such as a hard disk built in portable media, such as a floppy (trademark) disk, a magneto-optic disk, ROM, and CD-ROM, and a computer system, are contained in this record medium. Furthermore, the thing holding a fixed time amount program shall be included between short time like the volatile memory inside what holds a program dynamically, and the computer system used as the server in that case, or a client like the communication wire in the case of understanding communication lines, such as networks, such as the Internet, and the telephone line, and transmitting a program. Moreover, the above-mentioned program may be for realizing a part of function mentioned above.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the conceptual diagram showing the knowledge system concerning the gestalt of implementation of this invention.

[Drawing 2] It is the functional block diagram of the knowledge system shown in drawing 1.

[Drawing 3] It is the screen transition diagram displayed by the client side.

[Drawing 4] It is the explanatory view showing the contents of a display of the homepage of a knowledge system.

[Drawing 5] It is the explanatory view showing the contents of a display of a theme list screen.

[Drawing 6] It is the explanatory view showing the contents of a display of an idea and an information source proposal screen.

[Drawing 7] It is the explanatory view showing the contents of a display of a keyword list screen.

[Drawing 8] It is the explanatory view showing the contents of a display of an idea and an information source proposal screen.

[Drawing 9] It is the explanatory view showing the contents of a display of an idea and an information source proposal screen.

[Drawing 10] It is the explanatory view showing the contents of a display of a check screen.

[Drawing 11] It is the explanatory view showing the contents of a display of a check screen.

[Drawing 12] It is the explanatory view showing the contents of a display of a file registration screen.

[Drawing 13] It is the explanatory view showing the contents of a display of a precedence technical survey screen.

[Drawing 14] It is the explanatory view showing the contents of a display of the retrieval result display screen.

[Drawing 15] It is the explanatory view showing the contents of a display of the retrieval condition input screen when searching the registered idea.

[Drawing 16] It is the explanatory view showing the contents of a display of an idea list screen.

[Drawing 17] It is the explanatory view showing the contents of a display of contents display of idea / comment input screen.

[Drawing 18] It is the explanatory view showing manager comment field.

[Drawing 19] It is the explanatory view showing the contents of a display of a dictionary screen.

[Drawing 20] It is the explanatory view showing the contents of a display of a dictionary result screen.

[Drawing 21] It is the explanatory view showing the contents of a display of a theme manager's idea list screen.

[Drawing 22] It is the explanatory view showing the contents of a display of a theme affiliation person setting screen.

[Drawing 23] It is the explanatory view showing the contents of a display of a Request-For-Comments screen.

[Drawing 24] It is the explanatory view showing the contents of a display of the notice screen of an electronic mail.

[Drawing 25] It is the explanatory view showing the contents of a display of a my page.

[Drawing 26] It is the explanatory view showing the contents of a display of a full-text search condition directions screen.

[Drawing 27] It is the explanatory view showing the contents of a display of a retrieval result list screen.

[Drawing 28] It is the explanatory view showing the contents of a display of a collection site top page screen.

[Drawing 29] It is the explanatory view showing the contents of a display of a collection site low order page screen.

[Drawing 30] It is the flow chart of the directions display process of a Web page modification part.

[Drawing 31] It is the explanatory view showing the example of directions display processing.

[Drawing 32] It is the explanatory view showing the contents of a display of a collection site setting screen.

[Drawing 33] It is the explanatory view showing the contents of a display of a my page.

[Drawing 34] It is the explanatory view showing the contents of a display of the contents display screen of an electronic mail.

[Drawing 35] It is the explanatory view showing the example of the contents of a display of an electronic mail display when the idea corresponding to the registered individual keyword is discovered.

[Drawing 36] It is the explanatory view showing the contents of a display of an individual keyword registration screen.

[Drawing 37] It is the explanatory view showing the contents of a display of a my page retrieval screen.

[Drawing 38] It is the explanatory view showing the contents of a display of a my page list screen.

[Description of Notations]

100 Knowledge System

101 Enterprise Network

102 Internet

103 Server

104 Client

105 Fire Wall

106 Processing Section

107 Storage Section

108 Internet Server

110 Information Gathering Section

111 Idea Database

112 Page Copy Section

113 Web Page Database

114 Search Engine

115 Keyword Automatic Mortgage Activation Section

116 Electronic Mail Issue Section

117 Setting Information Processing Section

118 Setting Information Database

120 Dictionary Retrieval Section

121 Dictionary Database

122 Web Page Comparator

123 Patent Retrieval System

124 Documentation System

[Translation done.]